	Application No.	Applicant(s)
·	Application No.	Apprount(s)
Notice of Allowability	10/827,200	MOUSSAOUI, ZAKI
	Examiner	Art Unit
	Crystal J. Barnes	2121
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Amendment received</u>	on 3 October 2005.	
2. X The allowed claim(s) is/are 1-13.		
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:	•	
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
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International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)	E Notice of Informal D	latent Application (DTO 152)
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (P10-948)	 Interview Summary Paper No./Mail Dat 	(P10-413), te
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	nent/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
	9. Other	

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DETAILED ACTION

1. The following is a Notice of Allowability in response to the Amendment received on 3 October 2005. Claims 1-12 have been amended. Claim 13 has been added. Claims 1-13 are now pending in this application.

REASONS FOR ALLOWANCE

- 2. Claims 1-13 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

As per claim 1, the prior art of record taken alone or in combination fails to teach a linear predictive controller configured to predict linear changes of said main duty cycle signal in response to changes in said output signal, and configured to produce a predictive duty cycle signal from said output signal in a second feedback loop, wherein said predictive duty cycle signal is indicative of said linear changes.

As per claim 4, the prior art of record taken alone or in combination fails to teach a linear predictive controller coupled to said DC-DC block in a second feedback loop, and configured to produce a predictive duty cycle signal in response to changes in said output signal.

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As per claim 9, the prior art of record taken alone or in combination fails to teach linearly predicting changes of duty cycle in response to changes of said output signal to produce a predictive duty cycle in a second feedback loop.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following reference is cited to further show the state of the art with respect to predictive adaptive process control in general:

US Pub. No. 2005/0168198 A1 to Maksimovic et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Crystal J. Barnes whose telephone number is

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571.272.3679. The examiner can normally be reached on Monday-Friday alternate

Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Anthony Knight can be reached on 571.272.3687. The fax

phone number for the organization where this application or proceeding is assigned

is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

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direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CJB

29 November 2005

Anthony Knight

spervisory Patent Examiner

Group 3600